

# SHARP

## SERVICE MANUAL / SERVICE-ANLEITUNG / MANUEL DE SERVICE

S96E1RGF251GK



PHOTO : RG-F251G(BK)

# RG-F251G(BK) RG-F252E(BK)

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified by used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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## SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Frequency range:            | LW; 150 kHz to 285 kHz<br>MW; 526.5 kHz to 1606.5 kHz<br>FM; 87.6 MHz to 108 MHz |
| Power source:               | 12 volt (for negative earth car only)  |
| Output power:<br>(RG-F251G) | MAX; 8 W x 2<br>RMS; 5 W x 2 (DIN 45 324)  |
| Output power:<br>(RG-F252E) | MAX; 8 W x 2<br>RMS; 5 W x 2 (10 % distortion)                                   |
| Output impedance:           | 4 ohms (each)  |
| Dimensions:                 | Width; 165 mm<br>Height; 52 mm<br>Depth; 127 mm                                  |
| Weight:                     | 1.1 kg   |

Specifications for this model are subject to change without prior notice.

## NAMES OF PARTS

1. Tuning Control
2. Power Switch/Volume Control/Balance Control
3. Tone Button
4. FM Mono-Stereo Selector
5. Radio Band Selector
6. Tape Eject/Fast Forward Button
7. FM Stereo Indicator

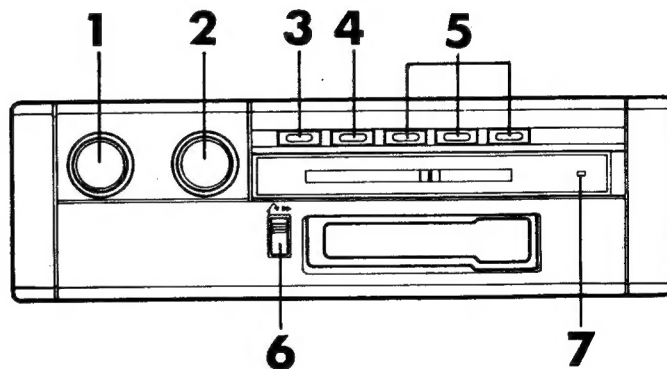


Figure 2

**④ TECHNISCHE DATEN**

|                      |  |
|----------------------|--|
| Empfangsbereich:     | LW; 150 kHz bis 285 kHz<br>MW; 526,5 kHz bis 1606,5 kHz<br>UKW; 87,6 MHz bis 108 MHz |
| Spannungsversorgung: | 12 Volt (nur Fahrzeuge mit negativer Batterieklemme an Masse)                        |
| Ausgangsleistung:    | MAX; 8 W x 2<br>RMS; 5 W x 2 (DIN 45 324)  |
| Ausgangsimpedanz:    | je 4 Ohm   |
| Abmessungen:         | Breite; 165 mm<br>Höhe; 52 mm<br>Tiefe; 127 mm                                       |
| Gewicht:             | 1,1 kg   |

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

**BEZEICHNUNG DER TEILE**

1. Abstimmregler
2. Ein/Aus-Schalter/Lautstärkeregler/Balanceregler
3. Klangtaste
4. UKW-Mono/Stereo-Wahlschalter
5. Wellenbandwähler
6. Auswurf/Schnellvorlauf-Taste
7. UKW-Stereoanzeige

**⑤ CATACTÉRISTIQUES**

|                      |   |
|----------------------|---|
| Gammes de fréquence: | LW; 150 kHz à 285 kHz<br>MW; 526,5 kHz à 1606,5 kHz<br>FM; 87,6 MHz à 108 MHz |
| Alimentation:        | 12 volts (uniquement pour voiture à pôle négatif à la masse)                  |
| Puissance de sortie: | MAX; 2 x 8 W<br>EFF; 2 x 5 W (DIN 45 324)                                     |
| Impédance de sortie: | 4 ohms (chaque)   |
| Dimensions:          | Largeur; 165 mm<br>Hauteur; 52 mm<br>Profondeur; 127 mm                       |
| Poids:               | 1,1 kg  |

Les caractéristiques de ce modèle sont sujettes à modification sans préavis.

**NOMENCLATURE**

1. Commande de syntonisation
2. Interrupteur marche-arrêt/commande de volume/commande de balance
3. Touche de tonalité
4. Sélecteur FM mono/stéréo
5. Sélecteur de gammes radio
6. Touche d'éjection/avance rapide
7. Voyant FM stéréo

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## DISASSEMBLY

### Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape out of the unit.
2. Take off nylon bands or wire holders where they need by removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
3. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

| STEP | REMOVAL         | PROCEDURE                                   | FIGURE |
|------|-----------------|---|--------|
| 1    | Bottom Cabinet  | 1. Screw..... (A)x2                         | 4-1    |
| 2    | Front Panel     | 1. Knob..... (B)x2                          | 4-1    |
| 3    | Mechanism Block | 1. Screw..... (C)x3<br>2. Socket..... (D)x2 | 4-2    |

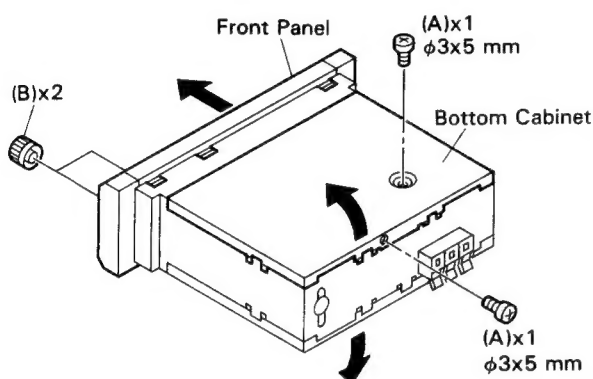


Figure 4-1

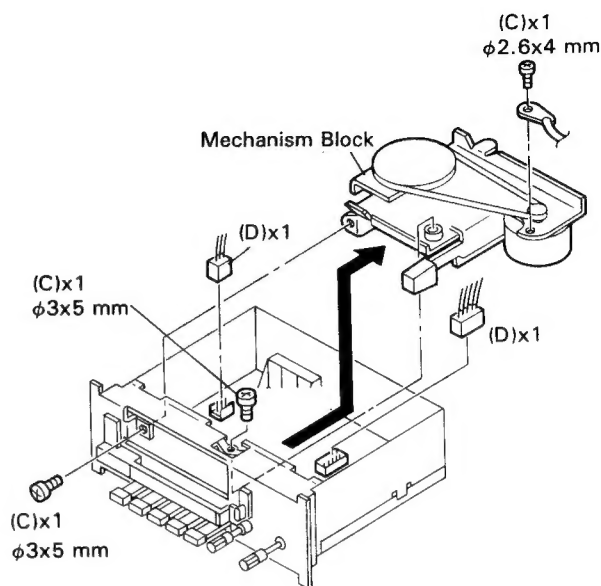


Figure 4-2

## STRINGING OF DIAL CORD

1. Hook a thread as shown in Figure 4-3.
2. Turn the shaft fully counterclockwise and fit the left end of the dial pointer to the boss at the Back Plate as shown in Figure 4-4.

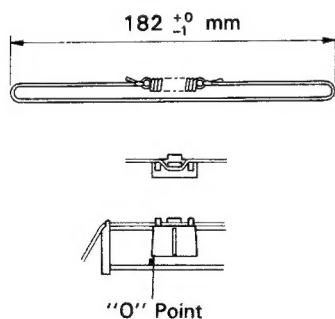


Figure 4-4

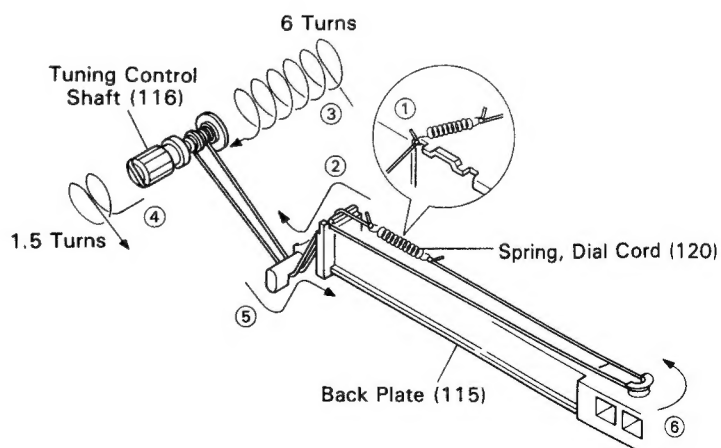


Figure 4-3

D

**ZERLEGEN****Vorsichtsmassregeln für das Zerlegen**

Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.

1. Die Cassette aus dem Gerät entfernen.
2. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
3. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

| SCH-RITT | ENTFERNEN            | VERFAHREN                                       | AB-BILDUNG |
|----------|----------------------|---|------------|
| 1        | Untere Gehäusehälfte | 1. Schraube ..... (A)x2                         | 4-1        |
| 2        | Frontplatte          | 1. Knopf..... (B)x2                             | 4-1        |
| 3        | Laufwerblock         | 1. Schraube..... (C)x3<br>2. Buchse ..... (D)x2 | 4-2        |

**SPANNEN DER SKALENSCHNUR**

1. Eine schnur gemäß Abb. 4-3 haken.
2. Die Achse voll entgegen dem Uhrzeigersinn drehen und das linke Ende des Skalenzeigers an die Nabe an der rückplatte gemäß Abb. 4-4 anbringen.

F

**DÉMONTAGE****Précautions pour le démontage**

Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.

1. Déposer la bande cassette de l'appareil.
2. Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redispouter les fils tel qu'ils étaient avant le démontage.
3. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

| ÉTAPE | DÉPOSE            | PROCÉDÉ                                      | FIGURE |
|-------|-------------------|--|--------|
| 1     | Coffret inférieur | 1. Vis ..... (A)x2                           | 4-1    |
| 2     | Panneau frontal   | 1. Bouton ..... (B)x2                        | 4-1    |
| 3     | Bloc du mécanisme | 1. Vis ..... (C)x3<br>2. Douille ..... (D)x2 | 4-2    |

**PASSAGE DU CORDON DU CADRAN**

1. Accrocher un fil comme le montre la Figure 4-3.
2. Tourner l'arbre entièrement à gauche et fixer l'extrémité gauche de l'aiguille de cadran au bossage sur le panneau arrière. Voir Figure 4-4.

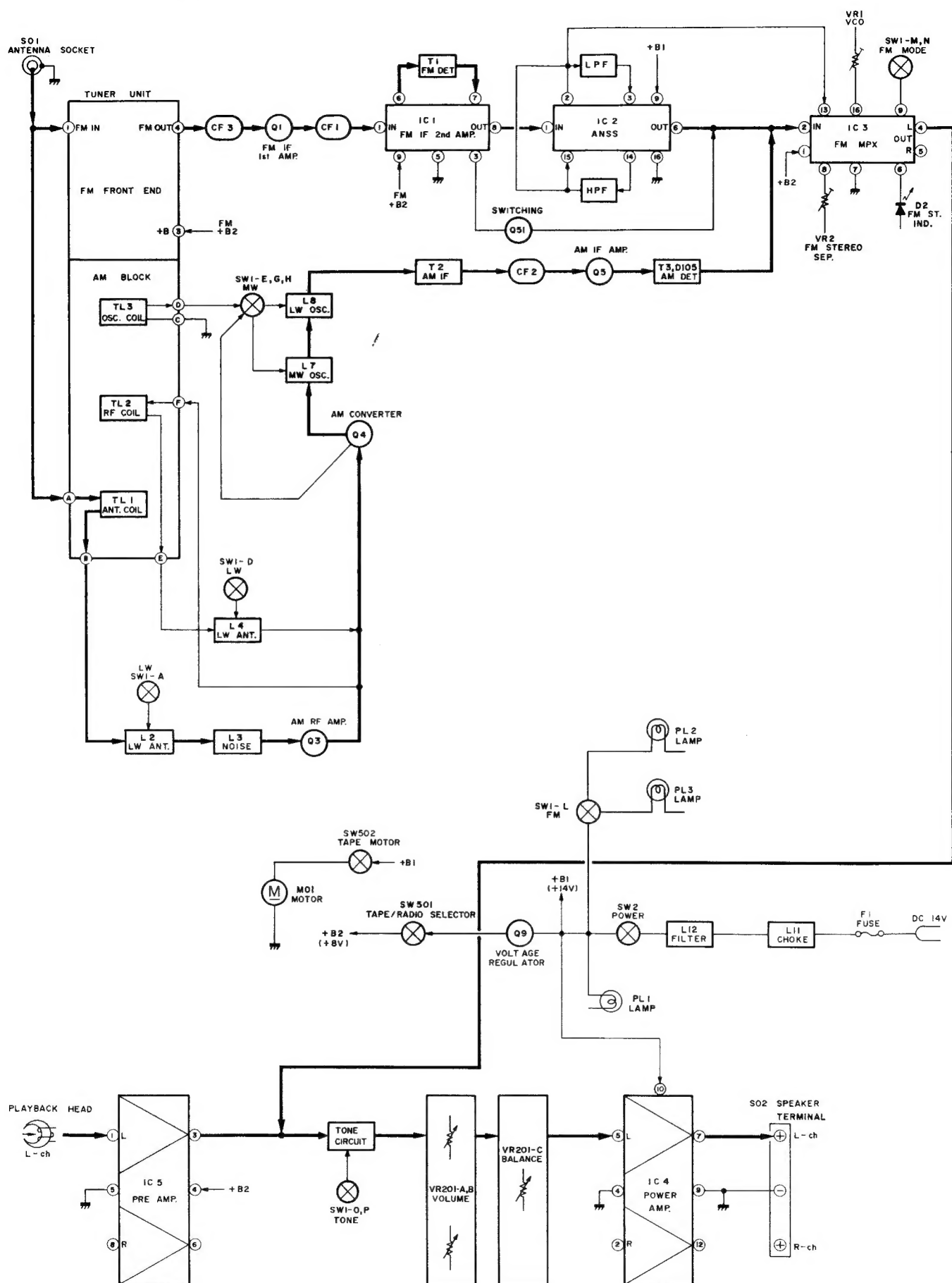


Figure 6 BLOCK DIAGRAM

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**NOTES ON SCHEMATIC DIAGRAM**

- **Resistor:**  
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and resistor without any symbol is ohm-type resistor.
- **Capacitor:**  
To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

D

**ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN**

- **Widerstände:**  
Um die Einheiten der Widerstände unterscheiden zu können, werden Symbole wie K und M benutzt. Das Symbol K bedeutet 1000 Ohm und das Symbol M 1000 Kiloohm. Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände.
- **Kondensatoren:**  
Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofarad. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Bezeichnung "Kapazität / Stehspannung" benutzt.
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffenden Teil und dem Chassis ohne Signalzuleitung gemessen.
- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.

F

**REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE**

- **Résistance:**  
Pour différencier les unités de résistances, on utilise des symboles tels que K et M: le symbole K signifie 1000 ohms, le symbole M signifie 1000 kohms et la résistance donnée sans symbole est une résistance de type ohm.
- **Condensateur:**  
Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité"
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.
- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.

## E MECHANICAL ADJUSTMENT

| ITEM                  | USING JIG  | ADJUSTMENT POINTS            | REMARKS (CHECK)   |
|-----------------------|--|------------------------------|---|
| Pinch Roller Pressure | Tension gauge (500 g)  | Pinch roller pressure spring | 300 – 350g<br>* If the reading is outside the range, replace the pressure spring of the pinch roller. |
| Torque                | Torque meter<br>Playback<br>TW-2111<br>Fast-forward<br>TW-2111 | _____                        | (Playback:<br>50 – 75 g-cm)<br>(Fast-forward:<br>50 – 75 g-cm)  |
| Azimuth               | Test tape<br>MTT-113   | Azimuth adjusting screw      | Sine waveform attains the maximum.  |
| Tape Speed            | Test tape<br>MTT-111   | _____                        | (3,000 ± 65 Hz)   |

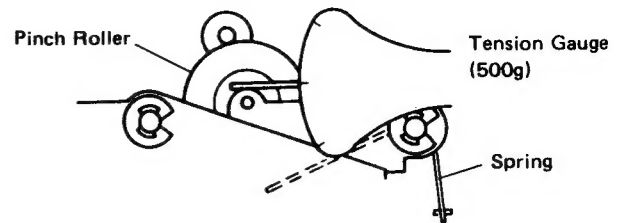


Figure 8-1 PINCH ROLLER PRESSURE

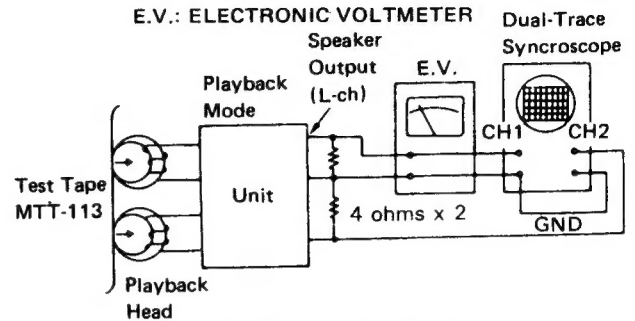


Figure 8-2 AZIMUTH

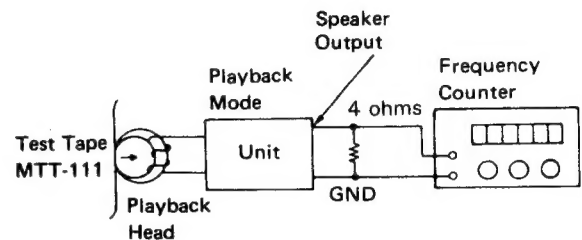


Figure 8-3 TAPE SPEED

## D MECHANISCHE EINSTELLUNG

| BE-NENNUNG                    | VER-WENDETES MESSGERÄT   | EINSTELL-PUNKT               | BEMERKUNGEN (PRÜFUNG)  |
|-------------------------------|--|------------------------------|--|
| Andruck-<br>rollen-<br>druck  | Federwaage<br>(500 g)  | Andruckrollen-<br>druckfeder | 300 – 350 g<br>* Wenn ein anderer<br>Wert angezeigt<br>wird, die Druck-<br>feder der<br>Andruckrolle<br>answechseln. |
| Dreh-<br>moment               | Drehmoment-<br>messer<br>Wiedergabe,<br>Vorwärts:<br>TW-2111<br>Schnellvorlauf:<br>TW-2111 | _____                        | (Wiedergabe,<br>Vorwärts:<br>50 – 75 g-cm)<br><br>(Schnellvorlauf:<br>50 – 75 g-cm)                                  |
| Azimut                        | Testband<br>MTT-113  | Azimuteinstell-<br>schraube  | Sinuswellenform<br>wird maximal.   |
| Bandge-<br>schwindig-<br>keit | Testband<br>MTT-111  | _____                        | (3,000 ± 65 Hz)  |

## F RÉGLAGE DE MÉCANISME

| ARTICLE                         | GABARIT  | POINTS DE RÉGLAGE                          | REMARQUES (VÉRIFICATION)  |
|---------------------------------|--|--|---|
| Pression<br>du galet<br>pinceur | Jauge de<br>tension<br>(500 g)   | Ressort de<br>pression du<br>galet pinceur | 300 – 350 g<br>* Si l'indication<br>par la jauge est<br>hors de la gamme,<br>remplacer le<br>ressort de pression<br>du galet pinceur. |
| Couple                          | Compteur<br>de couple<br>Lecture,<br>Avance;<br>TW-2111<br>Avance rapide:<br>TW-2111 | _____                                      | (Lecture, Avance:<br>50 à 75 g-cm)<br><br>(Avance rapide:<br>50 à 75 g-cm)  |
| Azimut                          | Bande d'essai<br>MTT-113   | Vis de réglage<br>de l'azimut              | La forme d'onde<br>sinusoïdale atteint  |
| Vitesse de<br>la bande          | Bande d'essai<br>MTT-111   | _____                                      | (3,000 ± 65 Hz)   |



E

## CIRCUIT ADJUSTMENT

## MW/LW IF/RF ADJUSTMENT

| SIGNAL GENERATOR                                   |  | 400 Hz, 30%, AM modulated |                      |                |                             |
|--|--|---------------------------|----------------------|----------------|-----------------------------|
| STEP   | TEST STAGE   | FRE-QUENCY                | DIAL POINTER SETTING | ADJUST-MENT    | REMARKS                     |
| MW/LW IF (Set the receiving frequency band to MW.) |  |                           |                      |                |                             |
| 1  | IF   | 452 kHz                   | High Frequency       | T2, T3         | Adjust for maximal out-put. |
| MW RF  |  |                           |                      |                |                             |
| 2  | Band coverage  | 510 kHz                   | Lowest frequency     | L7             | Adjust for maximal out-put. |
| 3  |  | 1,650 kHz                 | Highest frequency    | TC103          |                             |
| 4  | Repeat steps 2 and 3 until no further improvement can be made. |                           |                      |                |                             |
| 5  | Tracking   | 1,400 kHz                 | 1,400 kHz            | TC101<br>TC102 | Adjust for maximal output.  |
| 6  | Repeat step 5 until no further improvement can be made.        |                           |                      |                |                             |
| LW RF (Set the receiving frequency band to LW.)    |  |                           |                      |                |                             |
| 7  | Band coverage  | 145 kHz                   | Lowest frequency     | L8             | Adjust for maximal output.  |
| 8  |  | 310 kHz                   | Highest frequency    | TC 104         |                             |
| 9  | Repead steps 7 and 8 until no further improvement can be made. |                           |                      |                |                             |
| 10   | Tracking   | 260 kHz                   | 260 kHz              | L2, L4         | Adjust for maximal utput.   |
| 11   | Repeat step 10 until no further improvement can be made.       |                           |                      |                |                             |

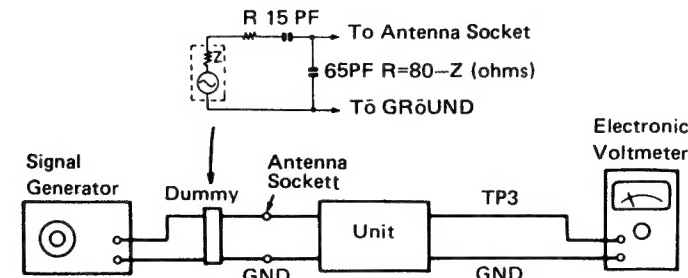


Figure 9-1 MW/LW IF/RF

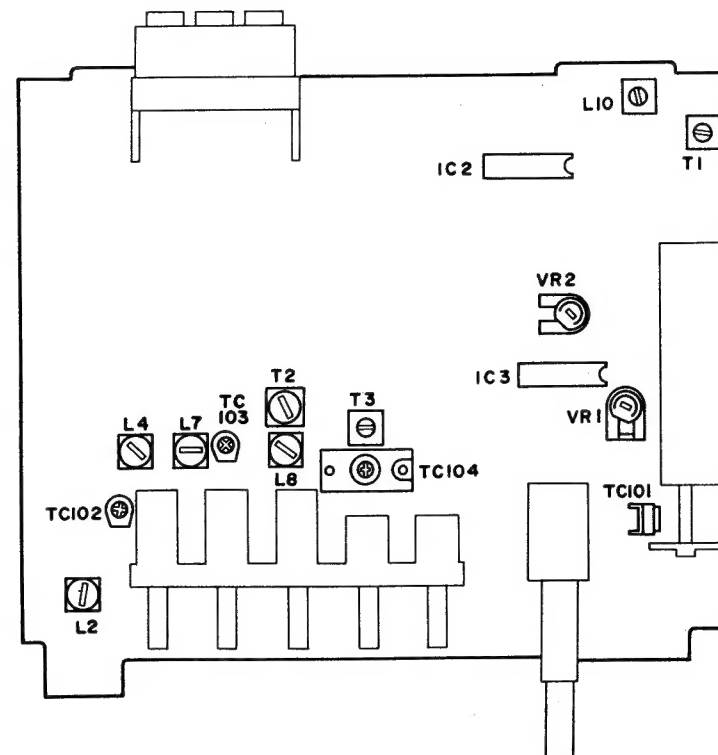


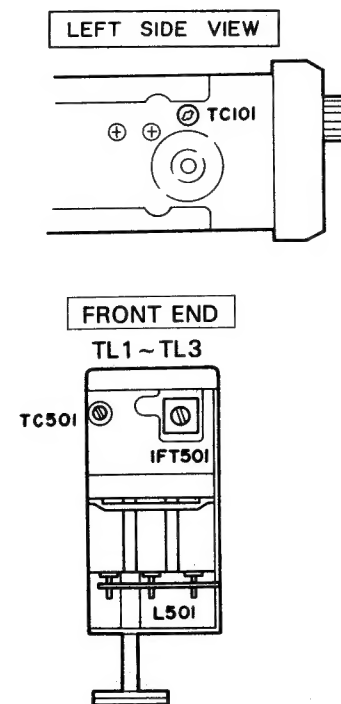
Figure 9-2 ADJUSTMENT POINTS

D

## SCHALTUNGSEINSTELLUNG

## MW/LW-ZF/HF EINSTELLUNG

| SIGNAL-GENERATOR  |  | 400 Hz, 30%, AM-Modulation |                                   |                  |  |
|---|--|----------------------------|-----------------------------------|------------------|--|
| SCH-<br>RITT  | PRÜF-<br>STUFE   | FRE-<br>QUENZ              | SKALEN-<br>ZEIGEREIN-<br>STELLUNG | EINSTEL-<br>LUNG | BEMER-<br>KUNGEN                                 |
| WM/LW ZF (Die Empfangsfrequenz auf das MW-Wellenband einstellen.) |  |                            |                                   |                  |  |
| 1   | ZF   | 452 kHz                    | Hoch-<br>Frequenz                 | T2,<br>T3        | Aux maxi-<br>malen Aus-<br>gang ein-<br>stellen. |
| MW HF   |  |                            |                                   |                  |  |
| 2   | Frequenz-<br>bereich   | 510 kHz                    | Niedrigste<br>Frequenz            | L7               | Aux maxi-<br>malen Aus-<br>gang ein-<br>stellen. |
| 3   |  | 1650 kHz                   | Höchste<br>Frequenz               | TC103            |  |
| 4   | Die Schritte 2 und 3 wiederholen, bis keine weitere<br>Verbesserung möglich ist. |                            |                                   |                  |  |
| 5   | Gleich-<br>lauf  | 1400 kHz                   | 1400 kHz                          | TC101<br>TC102   | Auf maxi-<br>malen Aus-<br>gang ein-<br>stellen. |
| 6   | Die Schritte 5 wiederholen, bis keine weitere<br>Verbesserung möglich ist.       |                            |                                   |                  |  |
| LW HF (Die Empfangsfrequenz auf das LW-Wellenband einstellen.)    |  |                            |                                   |                  |  |
| 7   | Frequenz-<br>bereich   | 145 kHz                    | Niedrigste<br>Frequenz            | L8               | Auf maxi-<br>malen Aus-<br>gang ein-<br>stellen. |
| 8   |  | 310 kHz                    | Höchste<br>Frequenz               | TC104            |  |
| 9   | Die Schritte 7 und 8 wiederholen, bis keine weitere<br>Verbesserung möglich ist. |                            |                                   |                  |  |
| 10  | Gleich-<br>lauf  | 260 kHz                    | 260 kHz                           | L2,<br>L4        | Auf maxi-<br>malen Aus-<br>gang ein-<br>stellen. |
| 11  | Die Schritte 10 wiederholen, bis keine weitere Ver-<br>besserung möglich ist.    |                            |                                   |                  |  |



F

## RÉGLAGE DU CIRCUIT

## RÉGLAGE DE FI/RF PO/GO

| GÉNÉRATEUR DE SIGNAUX  |  | 400 Hz, 30%, modulé AM |                          |                |                                     |
|--|--|------------------------|--------------------------|----------------|-------------------------------------|
| ÉTAPE  | ÉTAGE D'ESSAI  | FRÉ-QUENCE             | MISE AU POINT DE L'INDEX | RÉGLAGE        | REMARQUES                           |
| FI PO/GO (Régler la gamme de fréquence de réception sur PO.) |  |                        |                          |                |                                     |
| 1  | FI   | 452 kHz                | Haute rééquence          | T2, T3         | Régler sur la sortie maximale.      |
| RF PO  |  |                        |                          |                |                                     |
| 2  | Couver-<br>ture<br>de gamme<br>d'ondes   | 510 kHz                | Fréquence la plus basse  | L7             | Régler sur la sortie maxi-<br>male. |
| 3  |  | 1650 kHz               | Fréquence la plus élevée | TC103          |                                     |
| 4  | Refaire étapes 2 et 3 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue. |                        |                          |                |                                     |
| 5  | Alignement   | 1400 kHz               | 1400 kHz                 | TC101<br>TC102 | Régler sur la sortie maxi-<br>male. |
| 6  | Refaire les étapes 5 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue.  |                        |                          |                |                                     |
| RF GO (Régler la gamme de fréquence de réception sur GO.)    |  |                        |                          |                |                                     |
| 7  | Couver-<br>ture<br>de gamme<br>d'ondes   | 145 kHz                | Fréquence la plus basse  | L8             | Régler sur la sortie maxi-<br>male. |
| 8  |  | 310 kHz                | Fréquence la plus élevée | TC104          |                                     |
| 9  | Refaire étapes 7 et 8 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue. |                        |                          |                |                                     |
| 10   | Alignement   | 260 kHz                | 260 kHz                  | L2, L4         | Régler sur la sortie maxi-<br>male. |
| 11   | Refaire les étapes 10 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue. |                        |                          |                |                                     |

E

### FM IF/RF ADJUSTMENT

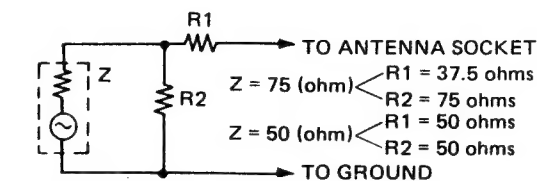
| SWITCH POSITION  |  | FM mono                  |                      |            |  |
|------------------|--|--------------------------|----------------------|------------|--|
| SIGNAL GENERATOR |  | 1 kHz 30 %, FM modulated |                      |            |  |
| STEP             | TEST STAGE   | FREQUENCY                | DIAL POINTER SETTING | ADJUSTMENT | REMARKS  |
| 1                | IF   | 10,7 MHz                 | Lowest Frequency     | IFT501     | 1. Using a minus driver, turn the core of T1 counter-clockwise before taking it out of the bobbin.<br>2. Adjust for best "IF" curve. |
| 2                | Detection  |                          |                      | T1         | Adjust for maximal output.   |
| 3                | Repeat steps 1 and 2 until no further improvement can be made. |                          |                      |            |  |
| 4                | Band coverage  | 87.3 MHz                 | Lowest Frequency     | TC501      | Adjust for maximal output.   |
| 5                | Separation (FM stereo position)                                | 98.0 MHz 74dB            | 98.0 MHz             | VR2        | Adjust for maximal separation.   |

### VCO FREQUENCY ADJUSTMENT

|                   |                      |  |                                   |
|-------------------|----------------------|--|-----------------------------------|
| SIGNAL GENERATOR  |                      | 1 kHz, 30%, FM modulated (mono signal) |                                   |
| FREQUENCY         | DIAL POINTER SETTING | ADJUST-<br>MENT                        | REMARKS                           |
| FM mono position  |                      | FM stereo position (unmodulated)       |                                   |
| 98.0 MHz at 60 dB | 98.0 MHz             | VR1                                    | Adjust for 19.00 kHz $\pm$ 50 Hz. |

### ANSS ADJUSTMENT

| SWITCH POSITION  |                      | FM mono                  |                            |  |  |
|------------------|----------------------|--------------------------|----------------------------|--|--|
| SIGNAL GENERATOR |                      | 1 kHz, 30%, FM modulated |                            |  |  |
| FREQUENCY        | DIAL POINTER SETTING | ADJUSTMENT               | REMARKS                    |  |  |
| 19 kHz           | High Frequency       | L10                      | Adjust for minimum output. |  |  |



Z = OUTPUT IMPEDANCE OF SIGNAL GENERATOR

Figure 11-7 FM DUMMY

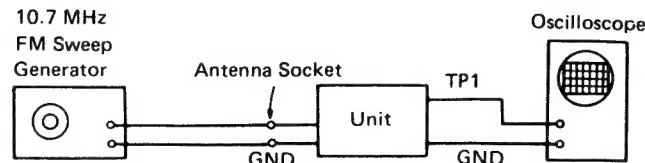


Figure 11-1 FM IF

Figure 11-2 FM IF CURVE

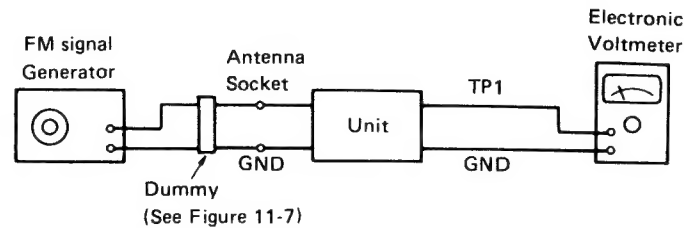


Figure 11-3 FM RF

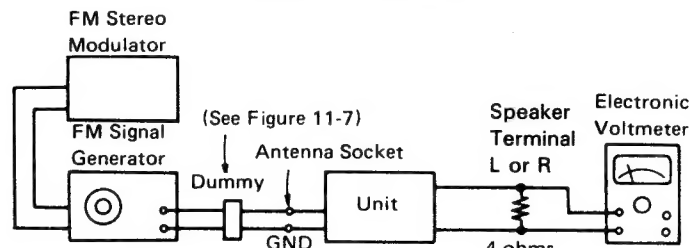


Figure 11-4 SEPARATION

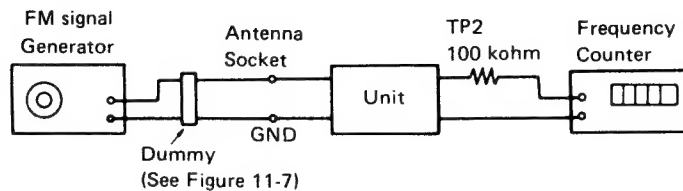


Figure 11-5 VCO FREQUENCY

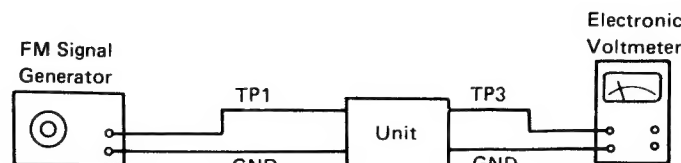


Figure 11-6 ANSS

D

### UKW-ZF/HF-EINSTELLUNG

| SCHALTER-STELLUNG |   | FM mono                     |                           |              |   |
|-------------------|---|-----------------------------|---------------------------|--------------|---|
| SIGNAL-GENERATOR  |   | 1 kHz, 30 %, UKW-Modulation |                           |              |   |
| SCH-RITT          | PRÜF-STUFE  | FREQUENZ                    | SKALEN-ZEIGEREIN-STELLUNG | EINSTEL-LUNG | BEMER-KUNGEN  |
| 1                 | ZF  | 10,7 MHz                    | Niedrigste Frequenz       | IFT501       | 1. Den kern von T1 mit Hilfe eines normalen Schraubenziehers entgegen dem Uhrzeigersinn drehen, bevor dieser aus der Spule genommen wird.<br>2. Auf beste S-Kurve einstellen. |
| 2                 | Detektion   |                             |                           | T1           | Auf maximalen Ausgang einstellen.   |
| 3                 | Die Schritte 1 und 2 wiederholen; bis keine weitere Verbesserung möglich ist. |                             |                           |              |   |
| 5                 | Frequenzbereich   | 87,3 MHz                    | Niedrigste Frequenz       | TC501        | Auf Maximalen Trennung einstellen.  |
| 5                 | Trennung (FM stereo-Position)   | 98,0 MHz 74 dB              | 98,0 MHz                  | VR2          | Auf Maximalen Trennung einstellen.  |

### EINSTELLUNG DER VCO-FREQUENZ

|                    |  |                                  |                                       |
|--------------------|--|----------------------------------|---------------------------------------|
| SIGNAL-GENERATOR   | 1 kHz, 30 %, UKW-Modulation<br>(Mono-Signal) |                                  |                                       |
| FREQUENZ           | SKALEN-ZEIGEREINSTELLUNG                     | EINSTELLUNG                      | BEMERKUNGEN                           |
| FM mono-Position   |  | FM stereo-Position (unmoduliert) |                                       |
| 98,0 MHz bei 60 dB | 98,0 MHz                                     | VR1                              | Auf 19,00 kHz $\pm$ 50 Hz einstellen. |

### ANSS-EINSTELLUNG

| SCHALTER-STELLUNG |                           | FM mono                     |  |  |  |
|-------------------|---------------------------|-----------------------------|--|--|--|
| SIGNAL-GENERATOR  |                           | 1 kHz, 30 %, UKW-Modulation |  |  |  |
| FREQUENZ          | SKALEN-ZEIGEREIN-STELLUNG | EINSTEL-LUNG                | BEMERKUNGEN                              |  |  |
| 19 kHz            | Hoch-Frequenz             | L10                         | Den kern Auf minimum Ausgang einstellen. |  |  |

### HINWEISE FÜR DIE FREQUENZEINSTELLUNG

Um die ZTF-Vorschrift Nr. 478/1981 zu erfüllen, den unteren Bereich der Skalenfrequenz auf (87,5 MHz) sowie den oberen Bereich der Skalenfrequenz auf (108 MHz) im UKW-Bereich jeweils durch entsprechendes Einstellen des Schwinggertrimmers (TC501) der Eingangsstufe, und der Schwingerspule (L501) gemäß Abbildung 9-2 festlegen.

F

### RÉGLAGE FM FI/RF

| POSITION DU COMMUTATEUR |  | FM Mono               |                          |         |  |
|-------------------------|--|-----------------------|--------------------------|---------|--|
| GÉNÉRATEUR DE SIGNAUX   |  | 1 kHz, 30%, modulé FM |                          |         |  |
| ÉTAPE                   | ÉTAGE D'ESSAI  | FRÉQUENCE             | MISE AU POINT DE L'INDEX | RÉGLAGE | REMARQUES  |
| 1                       | FI   | 10,7 MHz              | Fréquence la plus basse  | IFT501  | 1. À l'aide d'un tournevis plat, tourner le noyau de T1 à gauche avant de la bobine. |
| 2                       | Détection  |                       |                          | T1      | 2. Régler sur la sortie maximale.  |
| 3                       | Refaire les étapes 1 et 2 jusqu'à ce qu'une amélioration ultérieure ne puisse plus être obtenue. |                       |                          |         |  |
| 4                       | Couverture de gamme d'ondes  | 87,3 MHz              | Fréquence la plus basse  | TC501   | Régler pour que la séparation soit maximale.   |
| 5                       | Séparation (position FM stéréo)  | 98,0 MHz 74 dB        | 98,0 MHz                 | VR2     | Régler pour que la séparation soit maximale.   |

### RÉGLAGE DE LA FRÉQUENCE VCO

|                       |                          |                                      |                               |
|-----------------------|--------------------------|--------------------------------------|-------------------------------|
| GÉNÉRATEUR DE SIGNAUX |                          | 1 kHz, 30 %, modulé FM (mono signal) |                               |
| FRÉQUENCE             | MISE AU POINT DE L'INDEX | RÉGLAGE                              | REMARQUES                     |
| Position FM mono      |                          | Position FM stéréo (non modulés)     |                               |
| 98,0 MHz à 60 dB      | 98,0 MHz                 | VR1                                  | Réglage sur 19,00 kHz ±50 Hz. |

### RÉGLAGE DE L'ANSS

| POSITION DU COMMUTATEUR |                          | FM mono                |                                |  |  |
|-------------------------|--------------------------|------------------------|--------------------------------|--|--|
| GÉNÉRATEUR DE SIGNAUX   |                          | 1 kHz, 30 %, modulé FM |                                |  |  |
| FRÉQUENCE               | MISE AU POINT DE L'INDEX | RÉGLAGE                | REMARQUES                      |  |  |
| 19 kHz                  | Haute Fréquence          | L10                    | Régler sur la sortie minimale. |  |  |

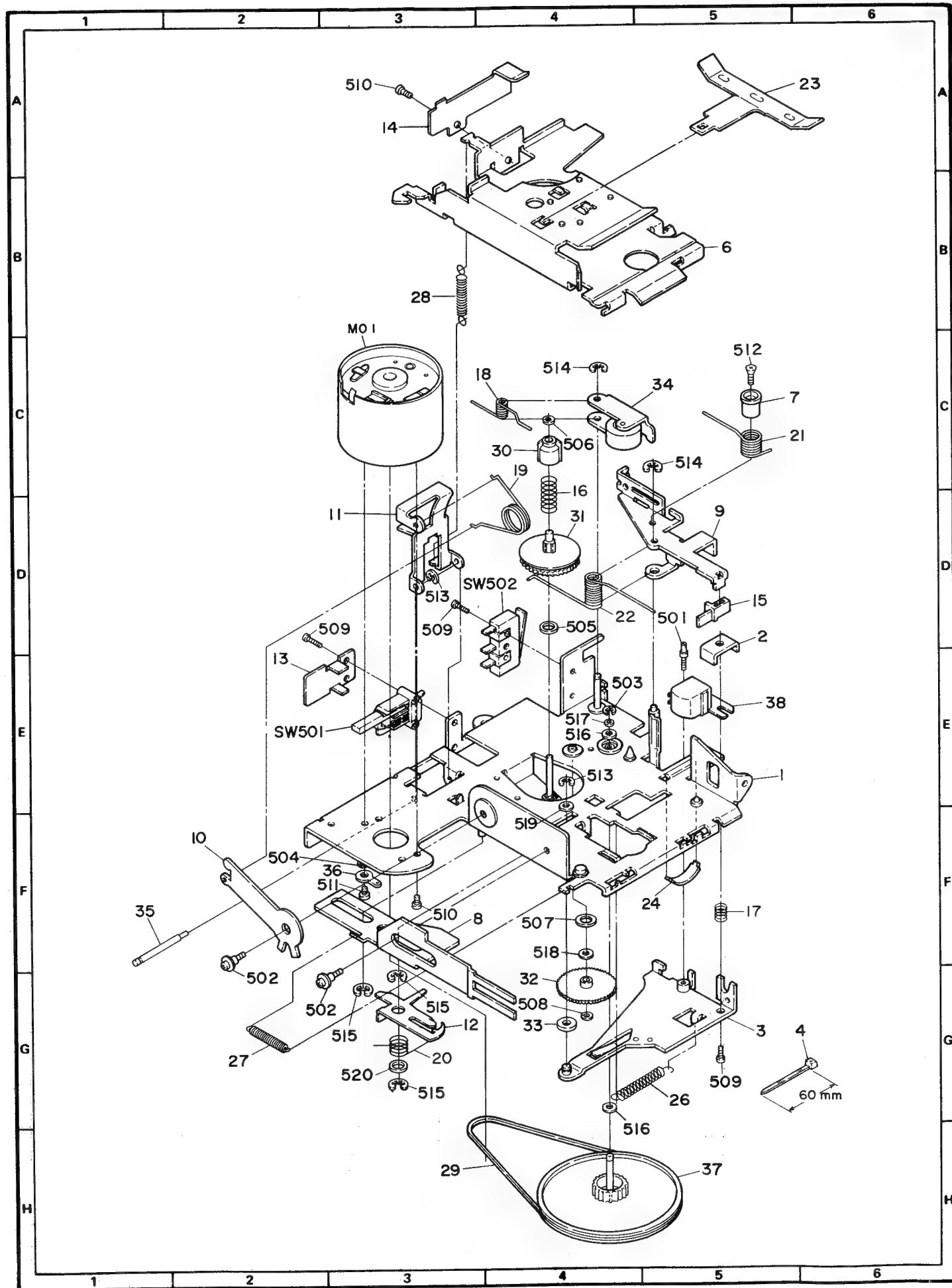


Figure 13 MECHANISM EXPLODED VIEW

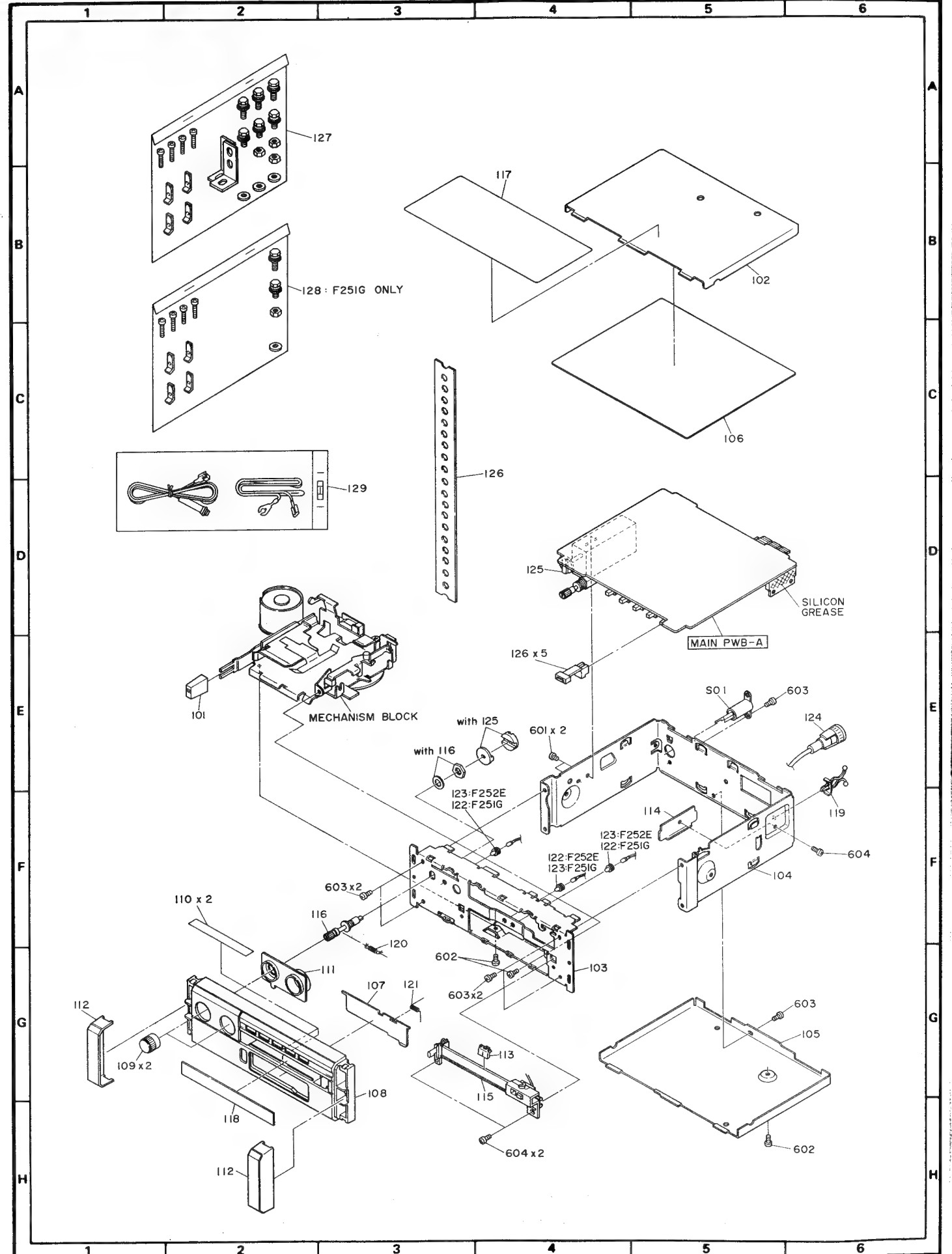
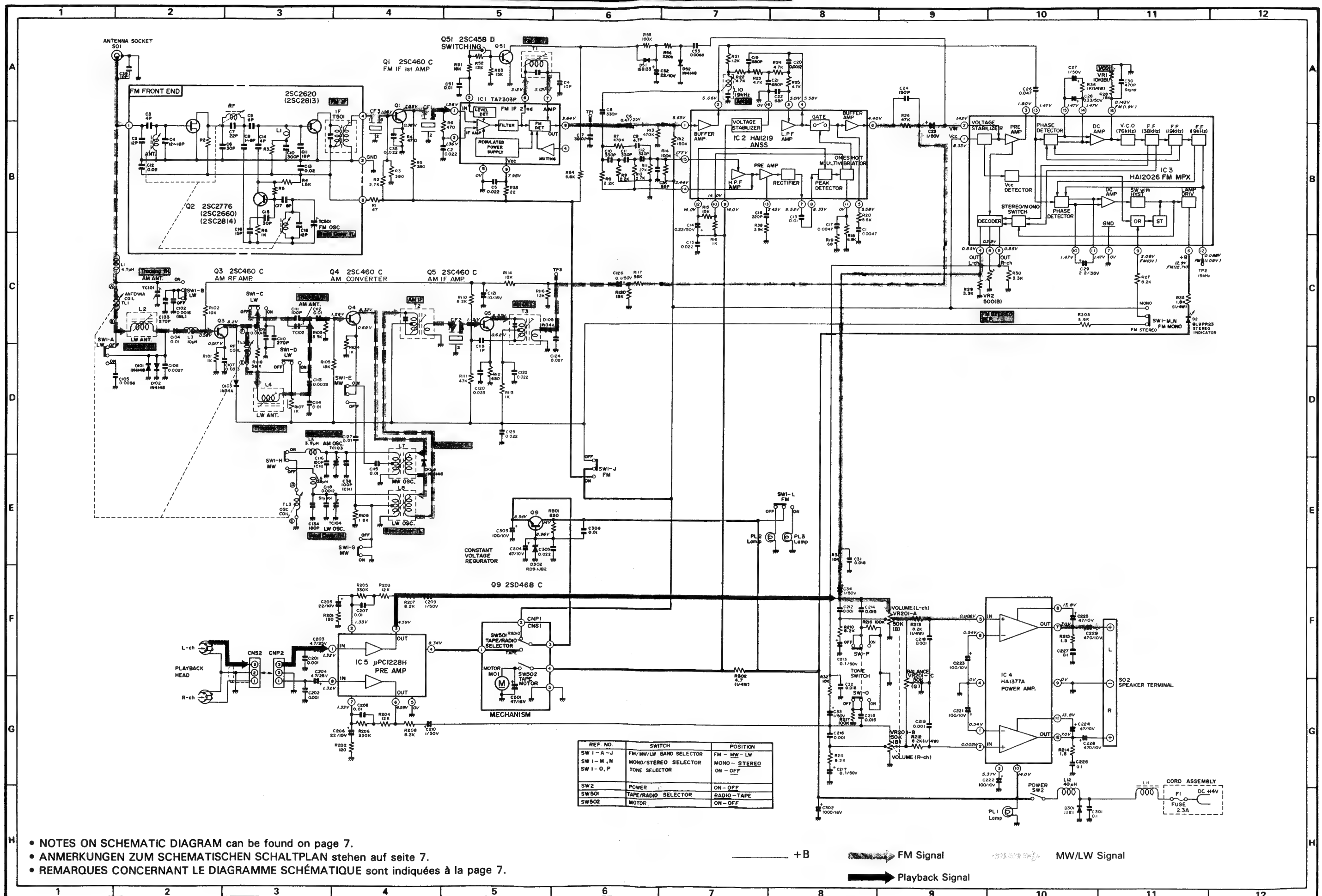


Figure 14 CABINET EXPLODED VIEW



- NOTES ON SCHEMATIC DIAGRAM can be found on page 7.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf seite 7.
- REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE sont indiquées à la page 7.

+B FM Signal MW/LW Signal  
Playback Signal



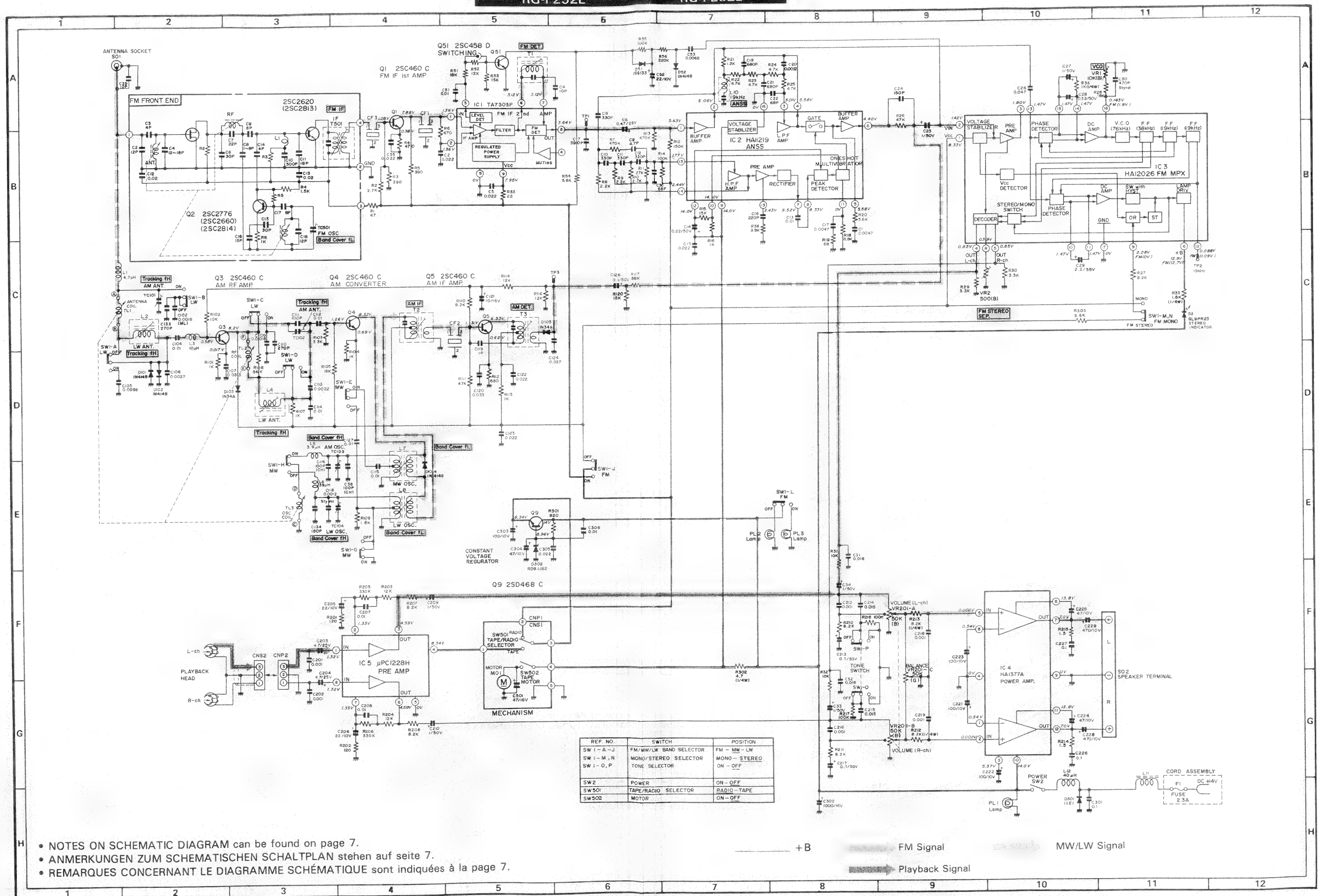


Figure 15 SCHEMATIC DIAGRAM

RG-F251G  
RG-F252E

RG-F251G  
RG-F252E

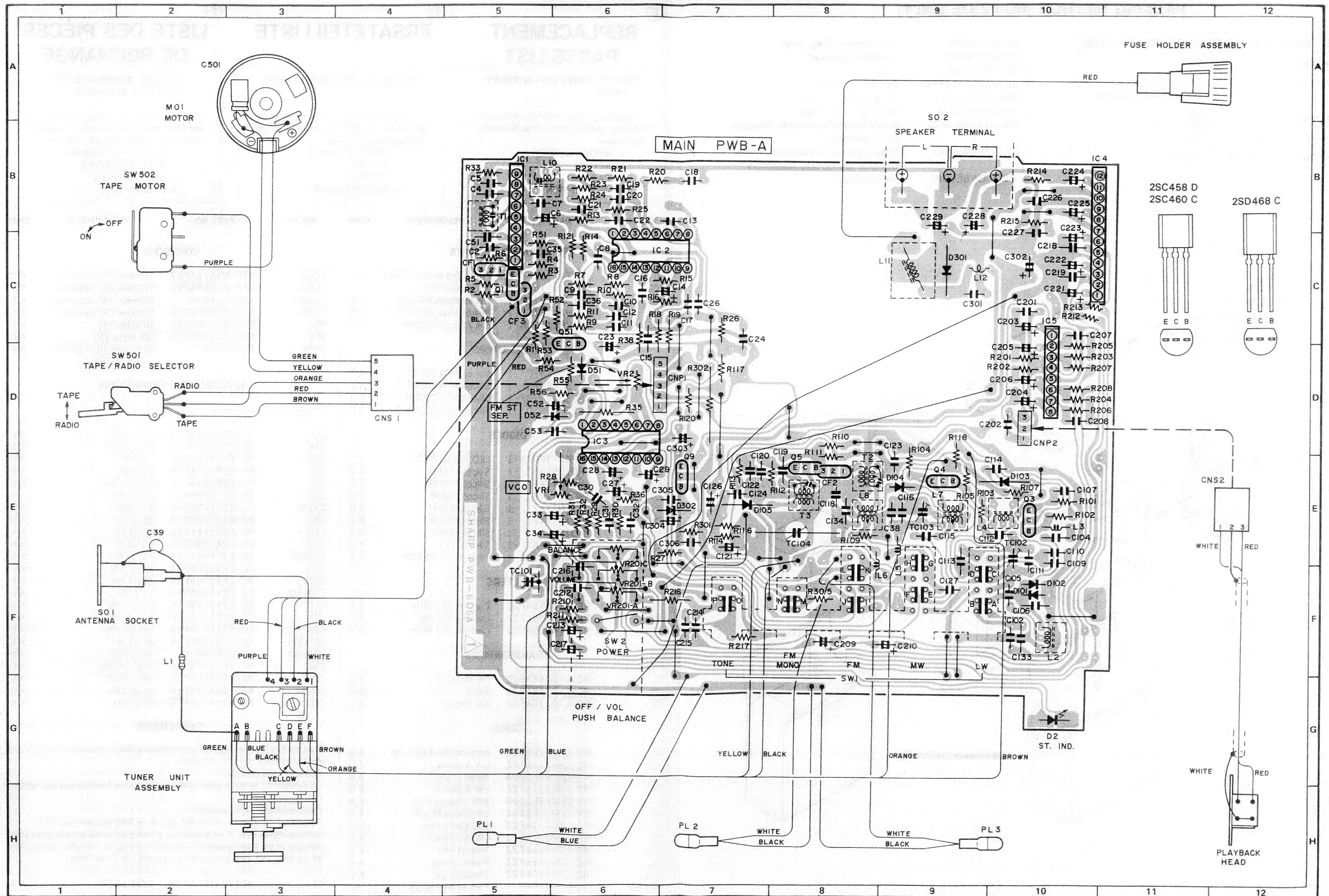
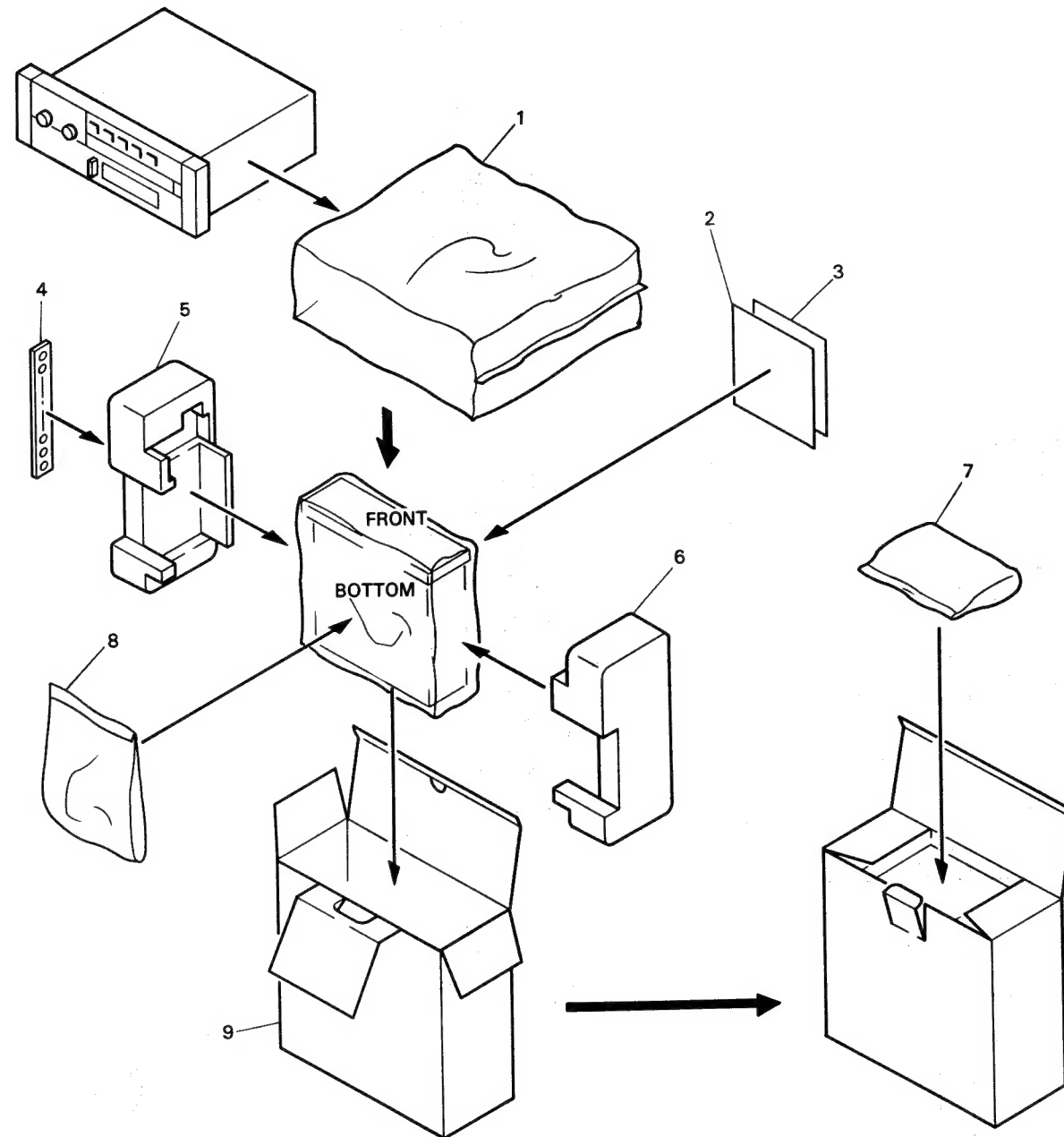


Figure 17 WIRING SIDE OF P.W. BOARD



**(F) LISTE DES PIÈCES  
DE RECHANGE**

|                  |   |
|------------------|---|
| 1. 92LBAG605A    | Polyethylene Bag, Unit                                      |
| 2. 92LiNST606A   | Operation Manual  |
| 3. 92LTAG605A    | Tag   |
| 4. LANGT0071AFFW | Bracket, Support  |
| 5. 92LP-AD605AL  | Packing Add., Left  |
| 6. 92LP-AD605AR  | Packing Add., Right   |
| 7. PSPAZ0152AFZZ | Side Bracket/Screw/Flat Washer/<br>Nut Assembly             |
| 8. QKiTZ0049AFZZ | Power Source Cord/Earse Cord/<br>Speaker Cord/Fuse Assembly |
| 9. 92LP-CASE606A | Packing Case  |



## “COMMENT COMMANDER DES PIÈCES DE RECHANGE”

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;  
A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K).....J."
- Semiconductor type capacitor;  
A symbol "T" is given at the 3rd digit of its Part Number like "VCT.....J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows: "J" ( $\pm 5\%$ ), "K" ( $\pm 10\%$ ), "M" ( $\pm 20\%$ ), "N" ( $\pm 30\%$ ), "C" ( $\pm 0.25$  pF), "D" ( $\pm 0.5$  pF), "Z" ( $+80-20\%$ ).

| REF.NO.  | PART NO.      | DESCRIPTION               | CODE | REF.NO.  | PART NO.      | DESCRIPTION    | CODE |
|----------|---------------|---------------------------|------|----------|---------------|----------------|------|
| C4       | VCCSBT1HL100J | 10 pF,50V                 | A A  | R13      | VRD-ST2CD474J | 470 kohms,1/6W | A A  |
| C5       | VCTYPA1EX223M | 0.022 $\mu$ F,25V         | A A  | R14      | VRD-ST2CD104J | 100 kohm,1/6W  | A A  |
| C7       | VCCSPA1HL391J | 390 pF,50V                | A A  | R15      | VRD-ST2CD153J | 15 kohms,1/6W  | A A  |
| C8       | VCCSPA1HL331J | 330 pF,50V                | A A  | R16      | VRD-ST2CD102J | 1 kohm,1/6W    | A A  |
| C9       | VCCSBT1HL4R7C | 4.7 pF,50V                | A A  | R18      | VRD-ST2CD682J | 6.8 kohms,1/6W | A A  |
| C10~12   | VCCSPA1HL331J | 330 pF,50V                | A A  | R19      | VRD-ST2CD680J | 68 ohms,1/6W   | A A  |
| C13      | VCTYPA1EX103K | 0.01 $\mu$ F,25V          | A A  | R20      | VRD-ST2CD562J | 5.6 kohms,1/6W | A A  |
| C15      | VCTYPA1EX223M | 0.022 $\mu$ F,25V         | A A  | R21      | VRD-ST2CD122J | 1.2 kohms,1/6W | A A  |
| C16      | VCCSPA1HL221J | 220 pF,50V                | A A  | R22~25   | VRD-ST2CD472J | 4.7 kohms,1/6W | A A  |
| C17,18   | VCTYPA1EX472K | 0.0047 $\mu$ F,25V        | A A  | R26      | VRD-ST2CD473J | 47 kohms,1/6W  | A A  |
| C19      | VCCSPA1HL681J | 680 pF,50V                | A A  | R27      | VRD-ST2CD822J | 8.2 kohms,1/6W | A A  |
| C20      | VCTYPA1EX122J | 0.0012 $\mu$ F,25V        | A B  | R28      | VRD-ST2CD183J | 18 kohms,1/6W  | A A  |
| C21      | VCCSPA1HL681J | 680 pF,50V                | A A  | R29,30   | VRD-ST2CD332J | 3.3 kohms,1/6W | A A  |
| C22      | VCCSBT1HL680J | 68 pF,50V                 | A A  | R31,32   | VRD-ST2CD103J | 10 kohm,1/6W   | A A  |
| C24      | VCCSPA1HL151J | 150 pF,50V                | A A  | R33      | VRD-ST2CD220J | 22 ohms,1/6W   | A A  |
| C26      | VCTYPA1EX473M | 0.047 $\mu$ F,25V         | A B  | R35      | VRD-ST2EE182J | 1.8 kohms,1/4W | A A  |
| C30      | VCQSPA1HL471J | 470 pF,50V,Styrol         | A B  | R36      | VRD-RU2EE102J | 1 kohm,1/4W    | A A  |
| C31,32   | VCTYPA1EX183K | 0.018 $\mu$ F,25V         | A B  | R38      | VRD-ST2CD392J | 3.9 kohms,1/6W | A A  |
| C35      | VCTYPA1EX223M | 0.022 $\mu$ F,25V         | A A  | R51      | VRD-ST2CD183J | 18 kohms,1/6W  | A A  |
| C36      | VCCSBT1HL680J | 68 pF,50V                 | A A  | R52      | VRD-ST2CD123J | 12 kohms,1/6W  | A A  |
| C38      | VCCCPA1HH101J | 100 pF (CH),50V           | A A  | R53      | VRD-ST2CD153J | 15 kohms,1/6W  | A A  |
| C39      | VCCSPA1HL100J | 10 pF,50V                 | A A  | R54      | VRD-ST2CD562J | 5.6 kohms,1/6W | A A  |
| C51      | VCTYBT1CY103M | 0.01 $\mu$ F,16V          | A A  | R55      | VRD-ST2CD104J | 100 kohm,1/6W  | A A  |
| C53      | VCTYPA1EX682K | 0.0068 $\mu$ F,25V        | A A  | R56      | VRD-ST2CD224J | 220 kohms,1/6W | A A  |
| C102     | VCQYKA1HM182J | 0.0018 $\mu$ F,50V,Mylar  | A B  | R101     | VRD-ST2CD102J | 1 kohm,1/6W    | A A  |
| C104     | VCTYBT1CX103M | 0.01 $\mu$ F,16V          | A A  | R102     | VRD-ST2CD103J | 10 kohm,1/6W   | A A  |
| C105     | VCTYPA1EX562K | 0.0056 $\mu$ F,25V        | A A  | R103     | VRD-ST2CD332J | 3.3 kohms,1/6W | A A  |
| C106     | VCTYBT1CX272M | 0.0027 $\mu$ F,16V        | A A  | R104     | VRD-ST2CD102J | 1 kohm,1/6W    | A A  |
| C107     | VCTYPA1EX333M | 0.033 $\mu$ F,25V         | A A  | R105     | VRD-ST2CD183J | 18 kohms,1/6W  | A A  |
| C109     | VCTYPA1EX182J | 0.0018 $\mu$ F,25V        | A A  | R107     | VRD-ST2CD102J | 1 kohm,1/6W    | A A  |
| C110     | VCCSPA1HL271J | 270 pF,50V                | A A  | R109     | VRD-ST2CD182J | 1.8 kohms,1/6W | A A  |
| C111     | VCCSPA1HL101J | 100 pF,50V                | A A  | R110     | VRD-ST2CD822J | 8.2 kohms,1/6W | A A  |
| C112     | VCTYBT1CY103M | 0.01 $\mu$ F,16V          | A A  | R111     | VRD-ST2CD473J | 47 kohms,1/6W  | A A  |
| C113     | VCTYBT1CX222M | 0.0022 $\mu$ F,16V        | A A  | R112     | VRD-ST2CD681J | 680 ohms,1/6W  | A A  |
| C114,115 | VCTYPA1EX103K | 0.01 $\mu$ F,25V          | A A  | R113     | VRD-ST2CD102J | 1 kohm,1/6W    | A A  |
| C116     | VCCCPA1HH101J | 100 pF (CH),50V           | A A  | R114     | VRD-ST2CD123J | 12 kohms,1/6W  | A A  |
| C118     | VCQSPA1HL122J | 0.0012 $\mu$ F,50V,Styrol | A B  | R116     | VRD-ST2CD123J | 12 kohms,1/6W  | A A  |
| C119     | VCCSBT1HL1R0C | 1 pF,50V                  | A A  | R117,118 | VRD-ST2CD563J | 56 kohms,1/6W  | A A  |
| C120     | VCTYPA1EX333M | 0.033 $\mu$ F,25V         | A A  | R120     | VRD-ST2CD153J | 15 kohms,1/6W  | A A  |
| C122,123 | VCTYPA1EX223M | 0.022 $\mu$ F,25V         | A A  | R201,202 | VRD-ST2CD121J | 120 ohms,1/6W  | A A  |
| C124     | VCTYPA1EX273K | 0.027 $\mu$ F,25V         | A A  | R203,204 | VRD-ST2CD123J | 12 kohms,1/6W  | A A  |
| C127     | VCTYPA1EX103J | 0.01 $\mu$ F,25V          | A B  | R205,206 | VRD-ST2CD334J | 330 kohms,1/6W | A A  |
| C133     | VCKYBT1HB271K | 270 pF,50V                | A A  | R207,208 | VRD-ST2CD822J | 8.2 kohms,1/6W | A A  |
| C134     | VCCSPU1HL181J | 180 pF,50V                | A A  | R210,211 | VRD-ST2CD822J | 8.2 kohms,1/6W | A A  |
| C201,202 | VCTYPA1EX102J | 0.001 $\mu$ F,25V         | A A  | R212,213 | VRD-RU2EE822J | 8.2 kohms,1/4W | A A  |
| C207,208 | VCTYPA1EX103K | 0.01 $\mu$ F,25V          | A A  | R214,215 | VRD-ST2CD1R5J | 1.5 ohms,1/6W  | A A  |
| C212     | VCKYBT1HB102K | 0.001 $\mu$ F,50V         | A A  | R216,217 | VRD-ST2CD104J | 100 kohm,1/6W  | A A  |
| C214,215 | VCTYPA1EX153K | 0.015 $\mu$ F,25V         | A A  | R301     | VRD-ST2CD821J | 820 ohms,1/6W  | A A  |
| C216     | VCKYBT1HB102K | 0.001 $\mu$ F,50V         | A A  | R302     | VRD-ST2EE4R7J | 4.7 ohms,1/4W  | A A  |
| C218,219 | VCTYBT1HB102K | 0.001 $\mu$ F,50V         | A A  | R305     | VRD-ST2CD562J | 5.6 kohms,1/6W | A A  |
| C226,227 | VCTYPU1EX104M | 0.1 $\mu$ F,25V           | A B  |          |               |                |      |
| C301     | VCKZPU1HF104Z | 0.1 $\mu$ F,50V           | A B  |          |               |                |      |
| C305     | VCTYPA1EX223M | 0.022 $\mu$ F,25V         | A A  |          |               |                |      |
| C306     | VCTYPA1EX103K | 0.01 $\mu$ F,25V          | A A  |          |               |                |      |

## RESISTORS

(Unless otherwise specified, resistors are  $\pm 5\%$ , carbon type.)

|      |               |                |     |
|------|---------------|----------------|-----|
| R1   | VRD-ST2CD470J | 47 ohms,1/6W   | A A |
| R2   | VRD-ST2CD272J | 2.7 kohms,1/6W | A A |
| R3   | VRD-ST2CD391J | 390 ohms,1/6W  | A A |
| R4   | VRD-ST2CD471J | 470 ohms,1/6W  | A A |
| R5   | VRD-ST2CD391J | 390 ohms,1/6W  | A A |
| R6   | VRD-ST2CD471J | 470 ohms,1/6W  | A A |
| R7   | VRD-ST2CD474J | 470 kohms,1/6W | A A |
| R8,9 | VRD-ST2CD222J | 2.2 kohms,1/6W | A A |
| R10  | VRD-ST2CD272J | 2.7 kohms,1/6W | A A |
| R11  | VRD-ST2CD273J | 27 kohms,1/6W  | A A |
| R12  | VRD-ST2CD154J | 150 kohms,1/6W | A A |

## OTHER CIRCUITRY PARTS

|       |                |                              |     |
|-------|----------------|------------------------------|-----|
| CNP1  | QCNCM586EAFZZ  | Plug,5 Pin                   | A B |
| CNP2  | QCNCM399CAFZZ  | Plug,3 Pin                   | A B |
| CNS1  | QCNCN0665AFZZ  | Connector Assembly,5 Pin     | A C |
| CNS2  | QCNCN-1786AFZZ | Connector Assembly,3 Pin     | A F |
| MO1   | 92LM-MOTOR367A | Motor with Pulley            | A X |
| PL1   | RLMPM0156AFZZ  | Lamp                         | A F |
| PL2,3 | RLMPM0180AFZZ  | Lamp                         | A F |
| SO1   | QSOCZ0015AFZZ  | Socket,Antenna               | A C |
| SO2   | QTANZ0303AFZZ  | Terminal,Speaker             | A E |
| SW1   | 92LSW-CH-605A  | Switch,Push Type,5 Segment   | A Q |
| SW2   | —              | Switch,Part of REF. No.VR201 | —   |
| SW501 | QSW-F0180AFZZ  | Switch,Skeleton              | A D |
| SW502 | QSW-M0054AFZZ  | Switch,Skeleton              | A F |



| REF.NO.                 | PART NO.       | DESCRIPTION                          | CODE | REF.NO.                                       | PART NO.               | DESCRIPTION  | CODE |
|-------------------------|----------------|--------------------------------------|------|---|------------------------|--|------|
| <b>MECHANICAL PARTS</b> |                |                                      |      | <b>CABINET PARTS</b>                          |                        |  |      |
| 1                       |                | Main Chassis Assembly                | —    | 101   | 92LBUT0N219B           | Button,Eject   | A B  |
| 2                       | LANGF0713AFFW  | Bracket,Head Retaining               | A A  | 102   | 92LCAB219C             | Cabinet,Top  | A E  |
| 3                       | LCHSS0211AFZZ  | Head Base Assembly                   | A Q  | 103   | 92LCAB605A             | Cabinet,Front  | A L  |
| 4                       | LHLDW1075AFZZ  | Nylon Band,60mm                      | A A  | 104   | 92LCAB605B             | Cabinet,Main   | A M  |
| 6                       | LHLDX3070AFZZ  | Cassette Holder                      | A F  | 105   | 92LCAB605D             | Cabinet,Bottom   | A F  |
| 7                       | LSLVM0138AFFW  | Sleeve,Sensor Lever                  | A B  | 106   | 92LC0V605D             | Insulator  | A D  |
| 8                       | MLEVF1339AFFW  | Lever,Eject                          | A D  | 107   | 92LD00R605A            | Lid,Cassette Compartment                                 | A E  |
| 9                       | MLEVF1341AFFW  | Lever,Stop                           | A B  | 108   | 92LF-PANEL605A         | Front Panel,F251G  | A K  |
| 10                      | MLEVF1343AFFW  | Crank,Eject Lever                    | A A  | 108   | 92LF-PANEL606A         | Front Panel,F252E  | A K  |
| 11                      | MLEVF1345AFFW  | Lever,Cassette Holder Lock           | A A  | 109   | 92LKN0B605A            | Knob,Volume/Tuning Control                               | A C  |
| 12                      | MLEVF1346AFFW  | Plate,Latch                          | A B  | 110   | 92LMiRR605A            | Plate,Reflection   | A A  |
| 13                      | MLEVF1390AFFW  | Cover,Switch                         | A B  | 111   | 92LPANEL605A           | Illumination Plate,Knobs                                 | A D  |
| 14                      | MLEVF1404AFFW  | Lever,Cassette Holder                | A C  | 112   | 92LPANEL605B           | Cover,Front Panel  | A C  |
| 15                      | MLEVP0396AFZZ  | Lever,Tape End Sensor                | A A  | 113   | 92LPiNT605A            | Dial Pointer   | A B  |
| 16                      | MSPRC0303AFFJ  | Spring,Take-up Reel                  | A A  | 114   | 92LRDAT605A            | Bracket,IC   | A B  |
| 17                      | MSPRC0304AFFJ  | Spring,Head Azimuth Adjust           | A A  | 115   | 92LS-CHS605A           | Back Plate,Dial  | A D  |
| 18                      | MSPRD0427AFFJ  | Spring,Pinch Roller                  | A A  | 116   | 92LSHAFT605A           | Shaft,Tuning Control                                     | A G  |
| 19                      | MSPRD0428AFFJ  | Spring,Cassette Holder Lock          | A A  | 117   | 92LSPEC605A            | Label,Specifications,F251G                               | A B  |
| 20                      | MSPRD0429AFFJ  | Spring,Latch Plate                   | A A  | 117   | 92LSPEC606A            | Label,Specifications,F252E                               | A B  |
| 21                      | MSPRD0450AFFJ  | Spring,Tape End Sensor               | A A  | 118   | HDALP0658AFSA          | Plate,Dial   | A C  |
| 22                      | MSPRD0640AFFJ  | Spring,Tape End Sensor Retaining     | A A  | 119   | LHLDW1071AFZZ          | Wire Holder  | A A  |
| 23                      | MSPRP0317AFZZ  | Plate Spring,Cassette Retaining      | A C  | 120   | MSPRT0321AFFJ          | Spring,Dial Cord   | A A  |
| 24                      | MSPRP0318AFZZ  | Plate Spring,Head Base               | A A  | 121   | MSPRD0430AFFJ          | Spring,Cassette Compartment Lid                          | A A  |
| 26                      | MSPRT0889AFFJ  | Spring,Head Base                     | A A  | 122   | PC0VZ8070AFSB          | Cover,Lamp,Orange  | A B  |
| 27                      | MSPRT0892AFFJ  | Spring,Eject Lever                   | A A  | 123   | PC0VZ8070AFSC          | Cover,Lamp,Green   | A B  |
| 28                      | MSPRT0893AFFJ  | Spring,Cassette Holder Lock Lever    | A A  | 124   | QFSHJ1069AFZZ          | Fuse Holder Assembly                                     | A C  |
| 29                      | NBLTK0221AFZZ  | Belt,Flywheel Drive                  | A C  | 125   | 92LTUNER-605A          | Tuner Unit Assembly                                      | B C  |
| 30                      | NDAiR0165AFSA  | Take-up Reel                         | A A  | 126   | 92LBUT0N605A           | Button,Push  | A B  |
| 31                      | NDAiR0191AFSA  | Turntable,Take-up                    | A F  | 601   | LX-BZ0296AFZZ          | Screw,φ3×3mm,Red   | A A  |
| 32                      | NGERH0096AFZZ  | Gear,Idler                           | A A  | 602   | XBBSD30P05000          | Screw,φ3×5mm   | A A  |
| 33                      | NR0LM0068AFFW  | Roller                               | A B  | 603   | XHBSD30P05000          | Screw,φ3×5mm   | A A  |
| 34                      | NR0LY0049AFZZ  | Pinch Roller Assembly                | A D  | 604   | XHBSD30P06000          | Screw,φ3×6mm   | A A  |
| 35                      | NSFTM0109AFZZ  | Shaft,Cassette Holder Lock           | A A  | <b>ACCESSORIES/PACKING PARTS</b>              |                        |  |      |
| 36                      | QHWS-3001AGFN  | Lug                                  | A A  | 92LBAG605A                                    | Polyethylene Bag,Unit  | A A  |      |
| 37                      | 92LM-FWHEL219A | Flywheel                             | A K  | 92LiNST605A                                   | Operation Manual,F251G | A E  |      |
| 38                      | 92LM-RP-HD297B | Head,Playback                        | A R  | 92LiNST605B                                   | Operation Manual,F251G | A B  |      |
| 501                     | LX-BZ0435AFFD  | Screw,φ2×3.5mm                       | A B  | 92LiNST606A                                   | Operation Manual,F252E | A B  |      |
| 502                     | LX-BZ0453AFZZ  | Screw,φ2.6×2mm                       | A A  | 92LP-AD605AL                                  | Packing Add.,Left      | A D  |      |
| 503                     | LX-RZ0002AFZZ  | Stop Washer "E" Type,φ1.5×φ3.5×0.4mm | A A  | 92LP-AD605AR                                  | Packing Add.,Right     | A D  |      |
| 504                     | LX-WZ0014AGFK  | Washer,φ2.6mm                        | A A  | 92LP-CASE605A                                 | Packing Case,F251G     | A H  |      |
| 505                     | LX-WZ5015AGZZ  | Washer,φ3.1×φ5.4×0.25mm              | A A  | 92LP-CASE606A                                 | Packing Case,F252E     | A H  |      |
| 506                     | LX-WZ9063AFZZ  | Washer,φ1.2×φ4×0.25mm                | A A  | 126   | LANGT0071AFFW          | Bracket,Support  | A B  |
| 507                     | LX-WZ9078AFZZ  | Washer,φ10×φ17×0.25mm                | A B  | 127   | PSPA0152AFZZ           | Side Brackets/Screw/Flat Washer/Nut Assembly,F251G Only  | A G  |
| 508                     | LX-WZ9079AFZZ  | Washer,φ2.1×φ4×0.25mm                | A A  | 128   | PSPA0153AFZZ           | Mount Brackets/Screw/Flat Washer/Nut Assembly,F251G Only | A F  |
| 509                     | XBPSD20W08000  | Screw,φ2×8mm                         | A A  | 129   | QKiTZ0049AFZZ          | Power Source Cord/Earse Cord/Speaker Cord/Fuse Assembly  | A H  |
| 510                     | XBBSD26P03000  | Screw,φ2.6×3mm                       | A A  | <b>P.W.B. ASSEMBLY (Not Replacement Item)</b> |                        |  |      |
| 511                     | XBBSD26P04000  | Screw,φ2.6×4mm                       | A A  | PWB-A   | 92LPWB605MAN03         | Main PWB   | —    |
| 512                     | XBBSD26P08000  | Screw,φ2.6×8mm                       | A A  |   |                        |  |      |
| 513                     | XREUJ15-04000  | Ring "E" Type,φ1.5×0.4mm             | A A  |   |                        |  |      |
| 514                     | XREUJ20-04000  | Ring "E" Type,φ2×0.4mm               | A A  |   |                        |  |      |
| 515                     | XREUJ30-06000  | Ring "E" Type,φ3×0.6mm               | A A  |   |                        |  |      |
| 516                     | XWHJZ21-02060  | Washer,φ2.1×φ6×0.2mm                 | A A  |   |                        |  |      |
| 517                     | XWHJZ21-05035  | Washer,φ2.1×φ3.5×0.5mm               | A A  |   |                        |  |      |
| 518                     | XWHNZ26-02040  | Washer,φ2.6×φ4×0.25mm                | A A  |   |                        |  |      |
| 519                     | XWHJZ26-02042  | Washer,φ2.6×φ4.2×0.2mm               | A A  |   |                        |  |      |
| 520                     | XWHNZ41-02570  | Washer,φ4.1×φ7×0.25mm                | A A  |   |                        |  |      |

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